

IDS 11/20/03

## FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

D-03-X(CA)

Applicant(s) TO AWAK  
For: SPEAKER SYSTEM AND A METHOD  
IMPROVING SOUND QUALITY THEREIN

Filing Date	Group
April 15, 1997	2747

## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date
AA	4,398,619	08/16/1983	Daniel, R. L. S.			
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						

## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Sub-Class	Trans-lation
AK						Yes No
AL						

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AM		The Radio Technology, article from the magazine for audiophile, December 1, 1994.
AN		
AO		
AP		

EXAMINER	Kalten	Date Considered	09/01/03
Reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant:			

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TO SEPARATE, HOLD TOP AND BOTTOM EDGES, SNAP-APART AND DISCARD CARBON

FORM PTO-892 (REV. 2-82)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		SERIAL NO.	GROUP ART UNIT	ATTACHMENT TO PAPER NUMBER	6
NOTICE OF REFERENCES CITED				06/373.250	2608		
		APPLICANT(S)		Tozawa			
U.S. PATENT DOCUMENTS							
	DOCUMENT NO.	DATE	NAME		CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
A	3 6 8 4 0 5 1	08/72	Hopkins		181	153	
B	2 9 7 8 9 4 1	09/76	Siebert		181	151	
C	3 3 2 7 8 0 8	06/67	Shapiro		181	153	
D	4 7 5 0 2 8 5	06/88	Collings		181	156	
E	4 3 9 8 6 1 9	08/83	Daniel		181	199	
F							
G							
H							
I							
J							
K							
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUB-CLASS	PERTINENT SMTS, PP, DWG, SPEC.
L							
M							
N							
O							
P							
Q							
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)							
R							
S							
T							
U							
EXAMINER	DATE	BEST AVAILABLE COPY					
X. M.	9/11/84						
* A copy of this reference is not being furnished with this office action. (See Manual of Patent Examining Procedure, section 707.05 (a).)							

**FORM PTO-1449****INFORMATION DISCLOSURE STATEMENT**

Atty Docket	Serial No.
D-654CA	08/842,682
Applicant(s): TOZAWA, K.	
For: SPEAKER SYSTEM AND A METHOD FOR IMPROVING SOUND QUALITY THEREOF	
Filing Date	Group
April 15, 1997	2747

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Sub-Class	Trans-lation
X	AK GB-A-659818	10/31/1951	Great Britain			Yes No
Y	AL DE-A-3927178	02/21/1991	Germany			

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AM	Supplementary European Search Report in the European Patent Application No. 93900401.6 corresponding to the present application, including copies of the first pages of the references cited in the report.
AN	Reference 1 (Remarks about GA-A-659818)
AO	Reference 2 (Referential material regarding technical matters such as "voice coil impedance").
AP	Official Communication dated October 5, 1999 from the EPO.

Examiner

Date Considered

9/1/00

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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*Notice of References Cited*

Application No. 08/842,682	App. Part(s) Katsutoshi Tozawa
Examiner Xu Mei	Group Art Unit 2743

Page 1 of 1

U.S. PATENT DOCUMENTS

*	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
A	1,975,201	08/1933	Elworthy	381	153
B					
C					
D					
E					
F					
G					
H					
I					
J					
K					
L					
M					

FOREIGN PATENT DOCUMENTS

*	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
N						
O						
P						
Q						
R						
S						
T						

NON-PATENT DOCUMENTS

*	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
U		
V		
W		
X		

\* A copy of this reference is not being furnished with this Office action.  
(See Manual of Patent Examining Procedure, Section 707.05(a).)

TO SEPARATE, HOLD TOP AND BOTTOM EDGES, SNAP-APART AND DISCARD CARBON

FORM PTO-892  
(REV. 2-62)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

SERIAL NO.	GROUP ART UNIT	ATTACHMENT TO PAPER NUMBER
08/373,250	2605	8
APPLICANT(S)		
Togawa		

NOTICE OF REFERENCES CITED

U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
A	1975261	08/33	Elworthy	381	153	
B						
C						
D						
E						
F						
G						
H						
I						
J						
K						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUB-CLASS	PERTINENT SHTS. DWG.	PP SPEC.
L	0186191	08/85	JP	Fujinara	181	151		
M								
N								
O								
P								
Q								

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER

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DATE

9/1/04  
10/03/95

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(See Manual of Patent Examining Procedure, section 707.05 (a).)

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